University of Bern

with

external team members from

University of Zürich

Team members Bern

ChPT

J.G.	
Gilberto Colangelo	
Sebastian Kubis	EURIDICE postdoc
Matthias Büchler	postdoc
Ignazio Scimemi	postdoc
Michela Verbeni	postdoc
Julia Schweizer	PhD
Peter Zemp	PhD
Christoph Häfeli	diploma
Martin Schmid	diploma

B-Physics

Christoph Greub	
Alex Parkhomenko	postdoc
Kay Bieri	PhD
Goran Eres	diploma

External team members Zürich

B-physics

Daniel Wyler	
Enrico Lunghi	postdoc
Werner Porod	postdoc
Andri Hardmeier	PhD
Sabine Schilling	PhD
Roman Zwicky	PhD

Collaborations between nodes

			years
1	Scimemi, Gamiz		
	Prades, Pich	Bern, Valencia, Granada	1/2
2	Gasser, Scuri, Verbeni		
	Paver	Bern, Frascati, Trieste	1/2
3	Colangelo, Cirigliano		
	Isidori	Bern, Frascati, Valencia	1
4	Colangelo, Jegerlehner,		
	Leutwyler, Caprini	Bern, Zeuthen	1
5	Gasser, Sainio	Bern, Helsinki	2
6	Colangelo, Dürr, Sommer	Bern, Zeuthen	2-3
7	Colangelo, ...	Bern, ...	3-4
8	Greub, Misiak	Bern, Warsaw	3-4

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1 $K \to 3\pi$, CP violation

2 $K_{l3}\gamma$

3 V_{us} from K_{l3}

4 $(g-2)_\mu$ no photon

5 Pion polarizabilities

6 Finite volume effects

7 $F_+(0)$ on the lattice

8 $B \to X_s\gamma$ at NNLL

Bern node

		years
1	Gasser, Mgeladze	
	Rusetsky, Scimemi	1/2
2	Colangelo, Gasser, Passera	
	Rusetsky, Scimemi	1
3	Gasser, Verbeni	1
4	Colangelo, Büchler	1
5	Colangelo, Büchler	
	Gasser, Häfeli	1
6	Schweizer, Zemp	2
7	Colangelo, Gasser	2
8	Colangelo, Hasenfratz et al	3-4
9	Colangelo, Hasenfratz et al.	3-4

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1 Electromagnetic corrections to strong interactions

2 $(g-2)_\mu$ with photon; 3 Ward identities, σ terms

4 $K \to \pi\pi$ dispersive approach, coupled channel

5 Renormalization group; 6 Hadronic atoms

7 $\pi\pi$ isospin breaking; 8 a_0^0, a_0^2 lattice

9 Scalar form factor lattice

Bern node [continuation]

		years
10	Ali, Greub, Parkhomenko	1-2
11	Asatrian, Bieri, Greub, Walker	2
12	Greub, Hurth, Steinhauser	2

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10 B decays containing eta' mesons

11 Higher order corrections in incl. rare B decays

12 SUSY contributions to $B- > X_s\gamma$